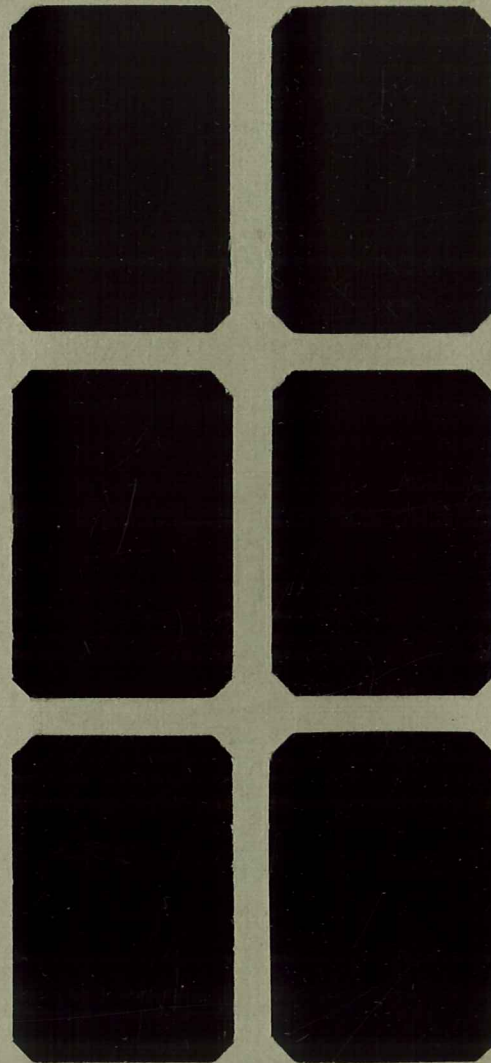


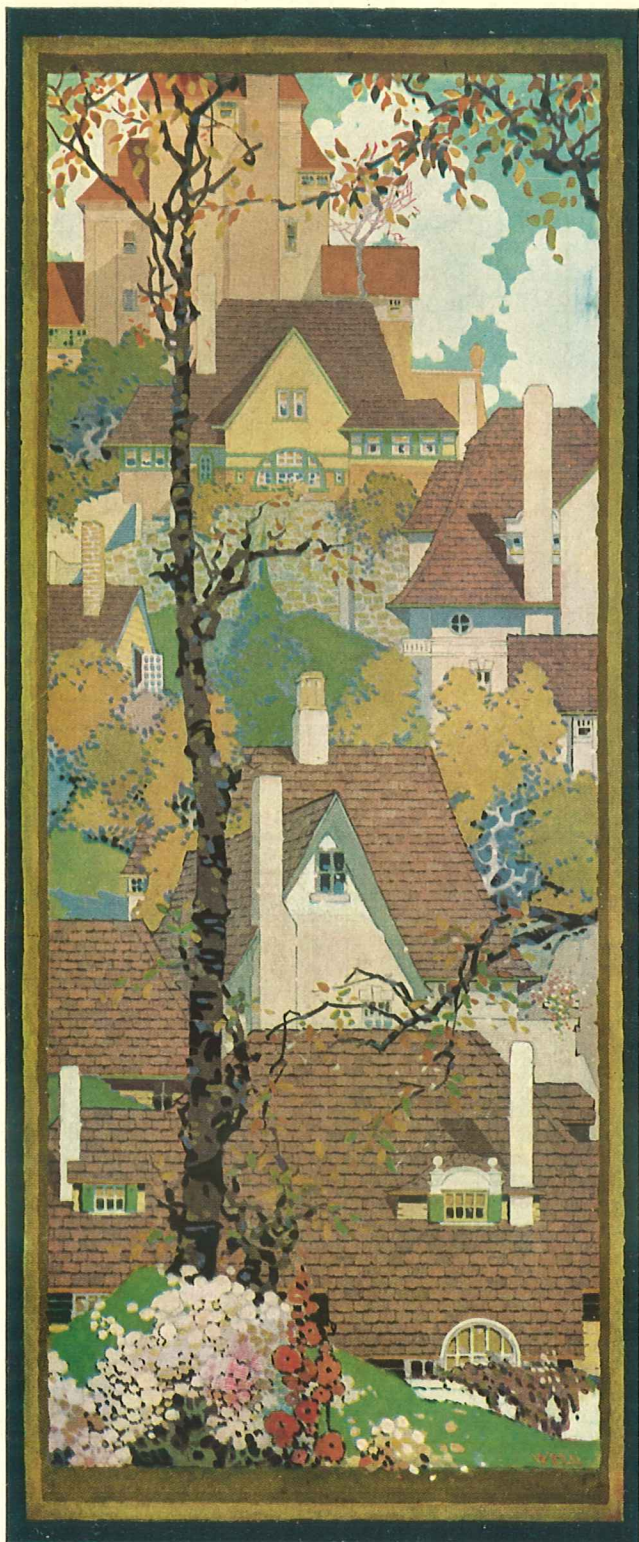
The Book of Roofs



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Those who appreciate beautiful things will find on the following pages a few of the many harmonious color effects obtained by using Johns-Manville Standard or "Colorblende" Asbestos Shingles

Tech D-1

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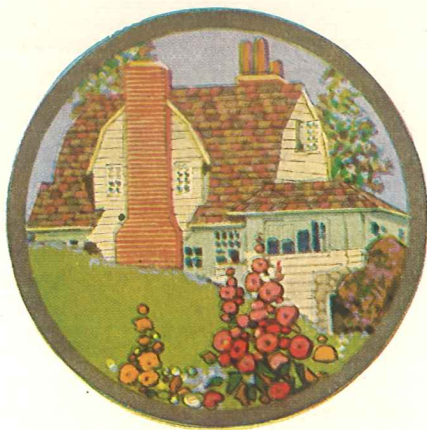
This book is dedicated to those who want their homes to be more than simply well built—who demand that they also be beautiful.

The following full-color illustrations show as nearly as possible, the actual color effects obtainable by using varying proportions of the different tones of Johns-Manville "Colorblende" Asbestos Shingles.

These illustrations enable the architect and the owner to visualize the many distinctive color combinations which are possible through the use of these shingles and will be of value in selecting that combination which will best carry out the particular color effect desired.

Johns-Manville "Colorblende" Asbestos Shingles will add that finishing touch of color which will give your roof a pleasing contrast to its surroundings and render it one of the distinctive and outstanding features of your home.

And of course since Johns-Manville "Colorblende" Asbestos Shingles are made of asbestos fibre and Portland cement, united under tremendous hydraulic pressure, they are fire-proof, weather-proof and exceedingly economical because they require practically no attention. There is no reason why you should ever be put to any upkeep expense for a roof of Johns-Manville "Colorblende" Asbestos Shingles. You can apply your roof and think only of its pleasant features, its beauty, its utility and its everlasting protection.

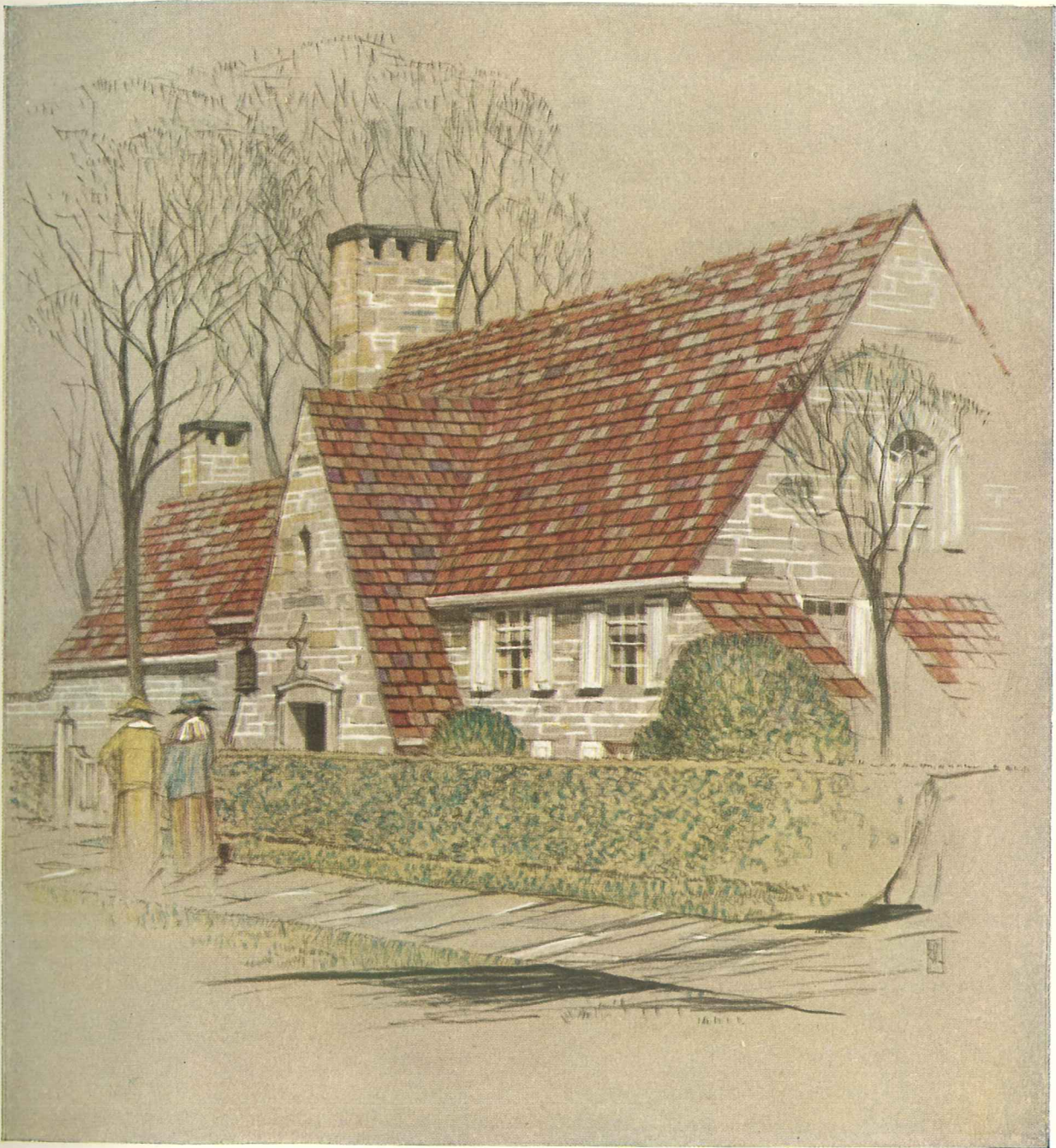




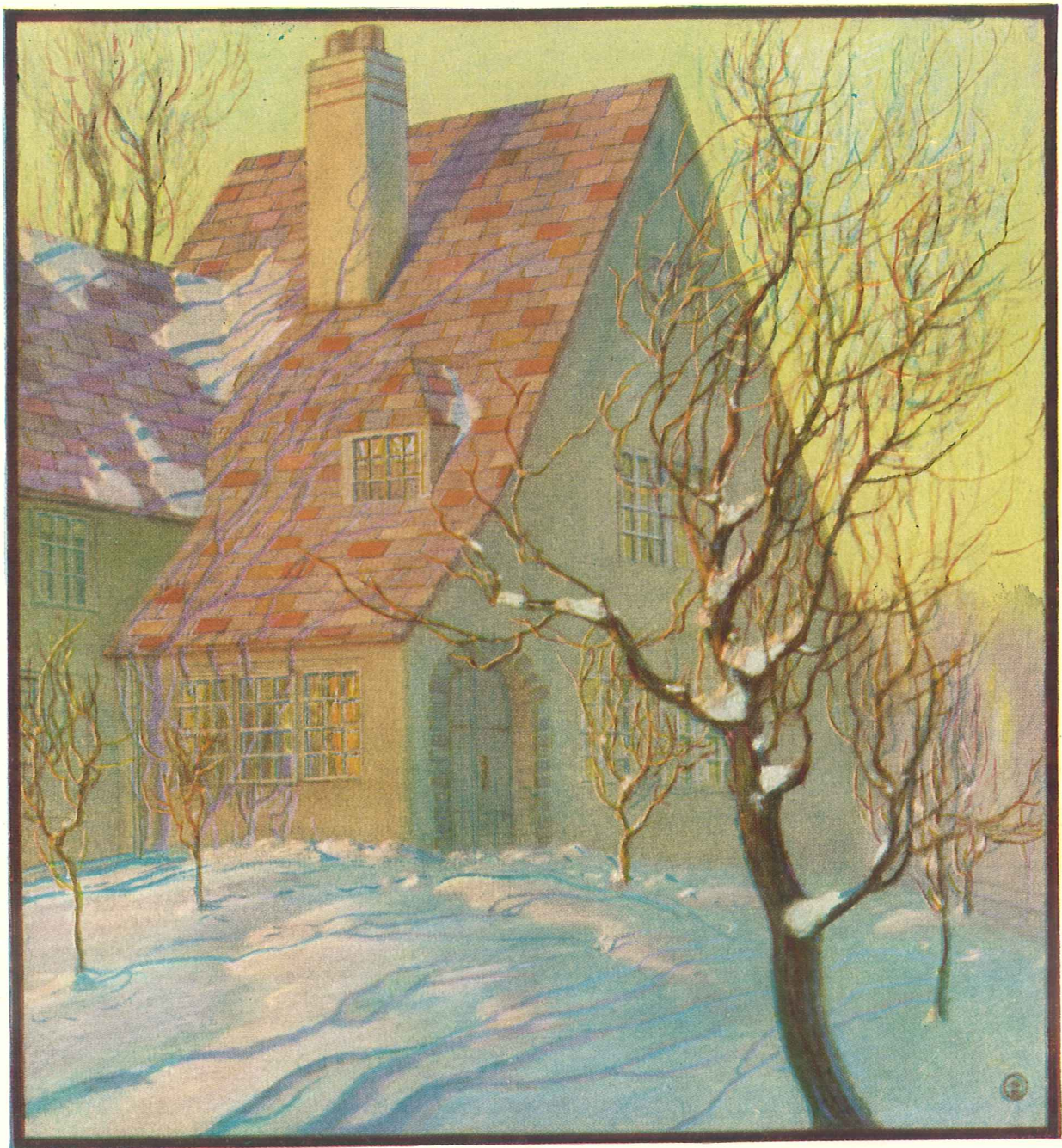
THE harmonious blending of this fire-proof and everlasting roof of Johns-Manville "Colorblende" Asbestos Shingles admirably tops off the riot of color in the cheerful garden—a pleasing greeting wherever the eye may rest. Obtained by laying at random Indian Red and the four tones of Conglomerate Brown shingles.



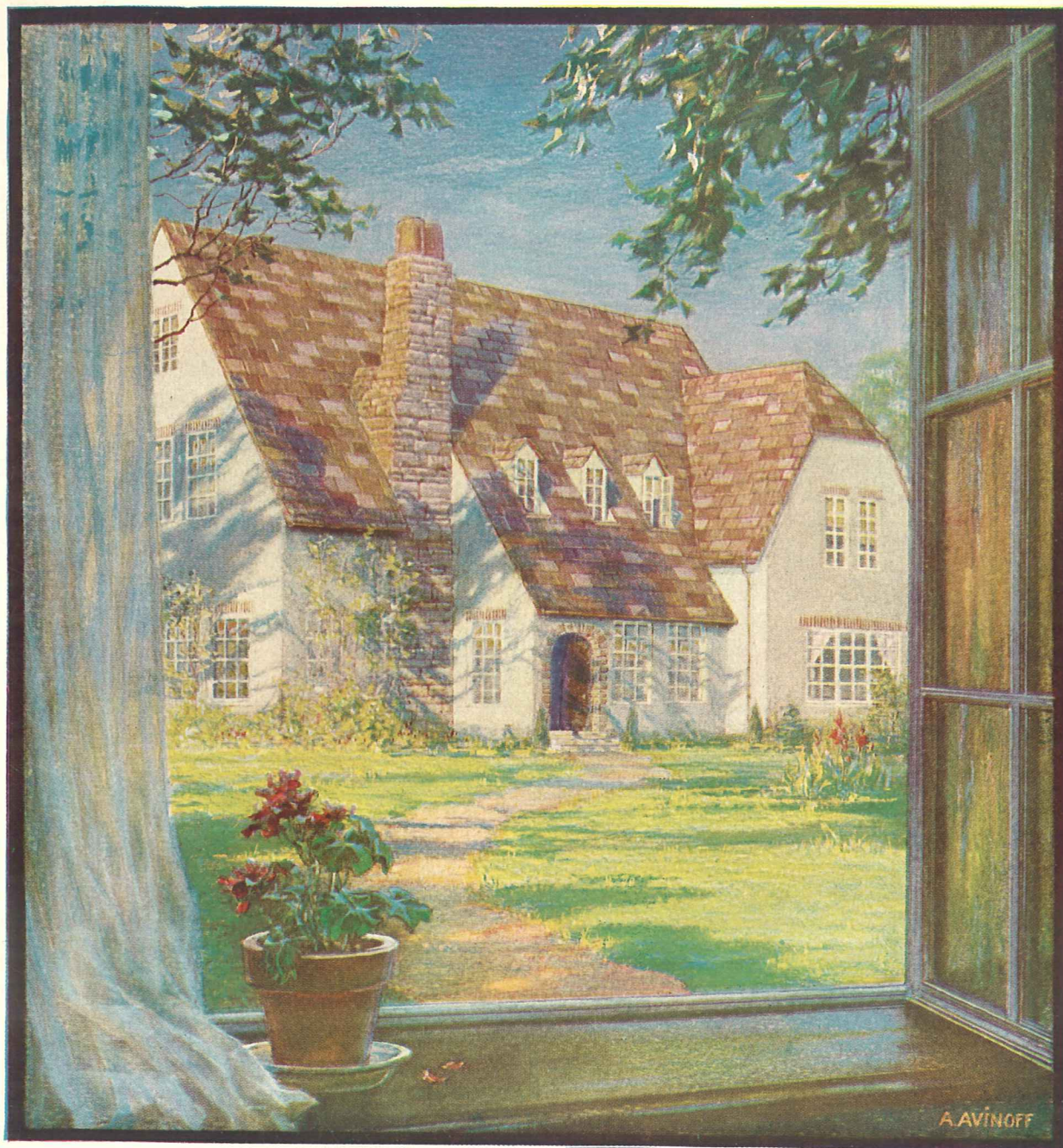
*T*HERE is in this handsome home, a touch of depth in the roof which contrasts with the lighter walls; the whole creating an impression of pleasant stability. Johns-Manville "Colorblende" Asbestos Shingles on the roof make this home a thing of beauty.



A HARMONIOUSLY blended fireproof and everlasting roof of Johns-Manville "Colorblende" Asbestos Shingles admirably crowns this substantial home and completes, through charm and color, the pleasing impression one gets of quaintness and stability.



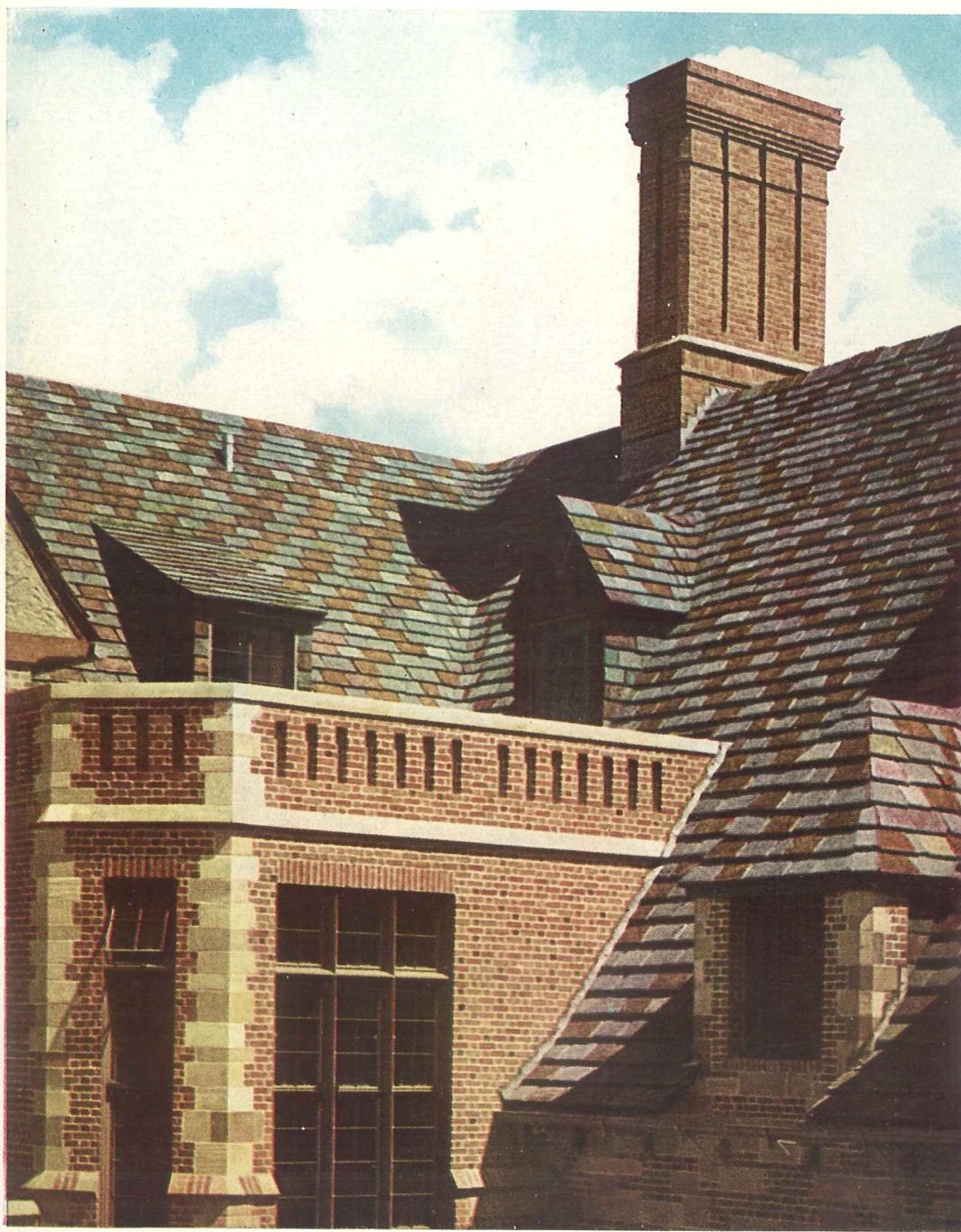
IN winter your roof of Johns-Manville "Colorblende" Asbestos Shingles will be the one touch of color in a landscape of bleak trees and drifting snow. This charming effect of warm tones can be secured by using a combination of Indian Red and shades one, two and three of Conglomerate Brown.



THIS intimate view shows the delightful effect given by combining Indian Red and Natural Gray shingles with shades one, two and three of Conglomerate Brown. While you admire the "Colorblende" Shingle as a thing of beauty the experts of Underwriters' Laboratories, Incorporated, look at it as a fire-proof roofing and give it the highest classifications.



THOSE who desire the lively effect produced by a roof predominately red will be delighted with this mixture of Indian Red and shades one, two and three of Conglomerate Brown. Here the plain severeness of stucco walls is relieved by this interesting combination of Johns-Manville "Colorblende" Asbestos Shingles.



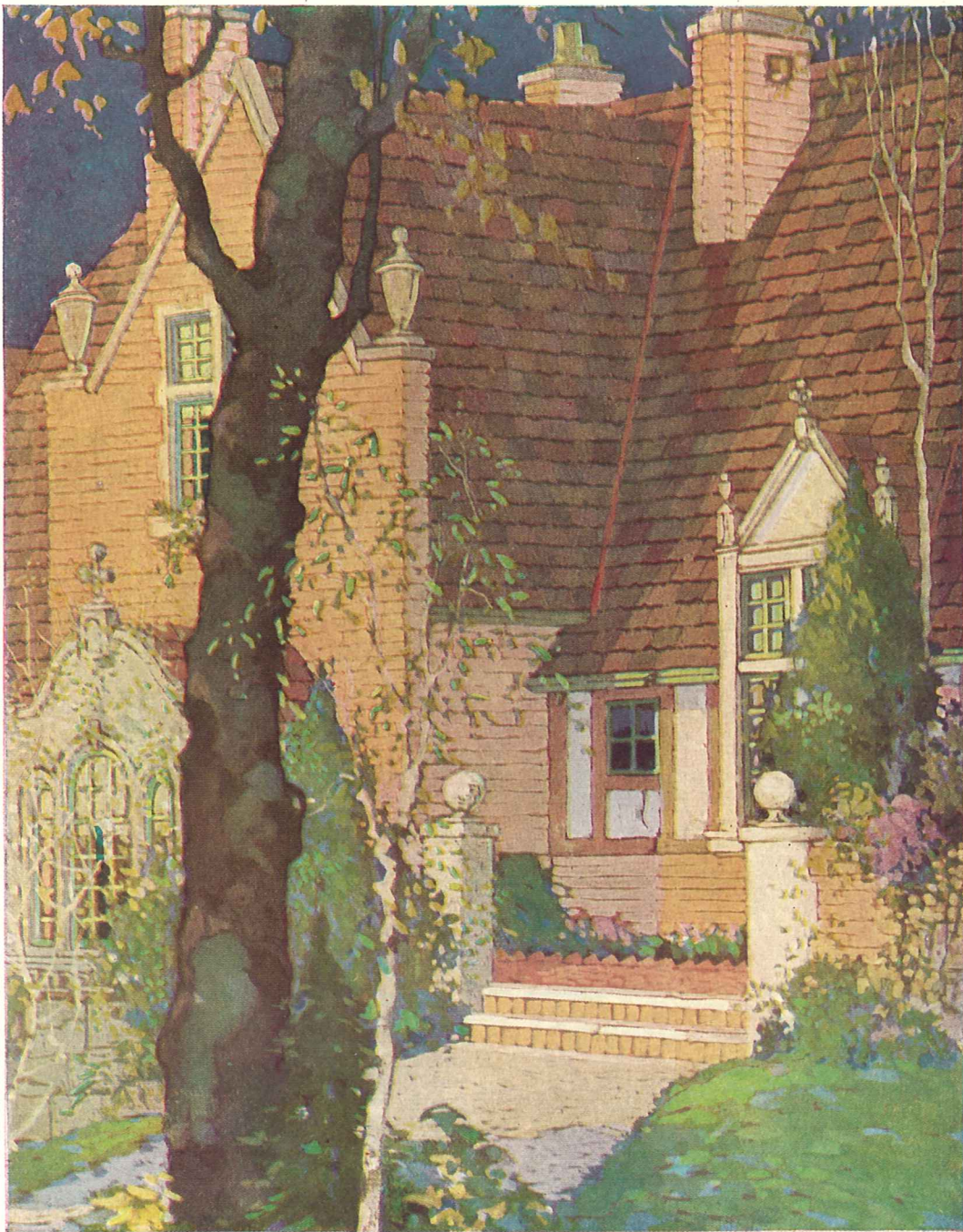
AN aristocratic, dignified, and beautiful roof created by the harmonious arrangement of Johns-Manville "Colorblende" Asbestos Shingles. Though this house may endure for centuries, the roof will still protect and embellish it, taking on a softer and more beautiful blend with the passing of the years. The pronounced lines of the butts are procured by a special arrangement.



A HALF-TIMBERED house surrounded by shrubbery and surmounted by a Johns-Manville "Colorblende" Asbestos Shingle Roof: Here is a gentle merging of lights and shades that bespeaks long weathering and removes that look of stark newness which is often so objectionable.



DISTINCTIVENESS characterizes this home with its ample roof lines and peaked gable. And much of that distinctiveness is obtained by this blending of Johns-Manville "Colorblende" Asbestos Shingles.



A DIGNIFIED roof suggesting an air of long occupancy. Here the soft warm shades of Johns-Manville "Colorblende" Asbestos Shingles in Conglomerate Brown, mingled in laying, harmonize with the natural surroundings with the restful unobtrusiveness of a weathered roof—as durable as stone and equally as fire-proof.



THIS soft tone of brown which blends so harmoniously with the tapestry brick side walls is obtained by the use of shades one, two and four of Conglomerate Brown with a smaller percentage of Natural Gray shingles. A Johns-Manville "Colorblende" roof which will please the most exacting owner or architect.



HERE is an interesting roof vista showing a combination of Indian Red and No.1 shade of Conglomerate Brown in Johns-Manville "Colorblende" Shingles. Notice the color note given the stucco sidewalls by the red brick at corners and windows—thus creating a perfect harmony with the colorful roof.



THIS roof will suggest the possibilities of securing novel effects by laying Johns-Manville "Colorblende" Shingles in unusual style combinations. Here solid color Indian Red shingles at the ridge gradually merge through the four shades of Conglomerate Brown to its darkest shade at the eaves.

Johns-Manville "Colorblende" Asbestos Shingles

The foregoing illustrations in colors show as far as printing permits the effects obtained by the various combinations of Johns-Manville Colorblende Asbestos Shingles on structures of a number of different architectural types.

In these illustrations the individual shingles are so small that it is difficult to appreciate the interesting effect of the rough texture. Therefore, at the bottom of this page we show a section of a roof deck so as to give an idea of the peculiar charm of the rough texture.

On the opposite page we show a portion of one shingle full size. This illustration is made direct from the shingle itself and is unretouched.

These shingles are made in the colors shown on page eighteen; namely, four shades of conglomerate brown, Indian red, autumn brown, and natural gray, and they are made in rough or smooth texture as ordered, although orders are filled with rough texture unless otherwise specified.

These Johns-Manville Colorblende Asbestos Shingles are given class A rating by the Under-

writers' Laboratories Inc., entitling owners to base rates of insurance. They are given this high classification because they are absolutely fireproof. And this important quality is combined with another equally important. They are everlasting. There is nothing about them to rot or deteriorate. They are impervious to weather,—rain, snow, or changes of climate will not affect them. Cold and the sun will not warp or crack them. As the years pass, they only take a harder set and a softer, more beautiful blend of color.

Any Johns-Manville distributor or shingle contractor can tell you about Johns-Manville Colorblende Asbestos Shingles. If you prefer, get in touch with our nearest branch office as listed on the back cover of this book.

Our Architects' Service Department will confer with architects, builders, and owners, and will gladly assist in the selection of Johns-Manville Colorblende Asbestos Shingles of the combinations best suited for different types of architecture or to follow personal taste.



This shows full size the interesting texture of Johns-
Manville "Colorblende" Asbestos Shingles



From These Delightful Colors Select the Combination That Will Complete the Charm of Your Home

Johns-Manville Asbestos Shingles require no special roof construction and are laid over solid sheathing or old wood shingles on every type of buildings having pitched roofs. From the wide variety of colors obtainable it is possible to select a "Colorblende" roof which will meet the individual preference of architect or owner to harmonize with any architectural scheme or natural environment.

A still further choice is offered by furnishing "Color-

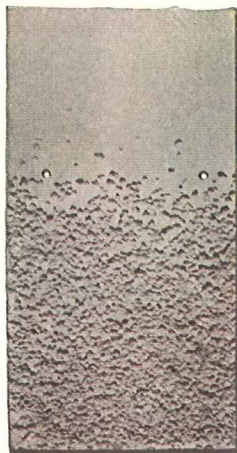
blende" shingles in two different surfaces—one a comparatively smooth finish of bold tone value; the other a distinctively artistic rough surface. Often the rough finish is preferable because of its delightful texture and subtle shadings that blend so happily with certain types of architectural design. The upper portion of the shingles shown on this page represents the smooth surface; the lower portion the rough texture which is generally preferred.



SHADE NO. 1



SHADE NO. 2



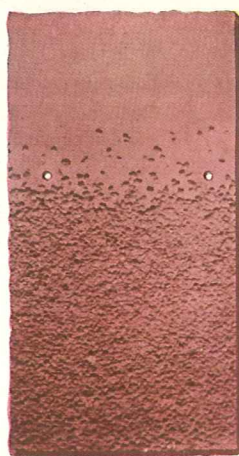
SHADE NO. 3



SHADE NO. 4

THE FOUR SHADES OF CONGLOMERATE BROWN ASBESTOS SHINGLES,
SHOWING ROUGH TEXTURE ON LOWER HALF, SMOOTH TEXTURE ON UPPER HALF

These four shades laid alone or combined with the Red or Gray or both constitutes a "Colorblende" roof.



INDIAN RED
ASBESTOS SHINGLE



AUTUMN BROWN
ASBESTOS SHINGLE



NATURAL GRAY
ASBESTOS SHINGLE

These colors are not blended one with the other, but are used when a solid over-all roof tone of soft red, gray or brown is desired. The Red and Gray, however, are sometimes incorporated in the "Colorblende" as described above.

Shingles in these colors are also furnished for application by the "Hexagonal Method." (See pages 20 and 24.)

The First Cost is the Last Cost

The roofing material that gives permanent satisfaction in service, year after year, without costing one cent for maintenance, is a cheaper roof when figured on a cost-per-year basis, than one whose initial cost is considerably lower but which requires periodical painting or other refinishing. For a roof that demands attention and costly repairs quickly runs up maintenance bills that more than over-shadow the cost of a first-cost, last-cost roof.

The first cost of Johns-Manville Asbestos Shingles is the last cost, for they never need paint or repairs, and they actually toughen with age.

Made of Everlasting Rock

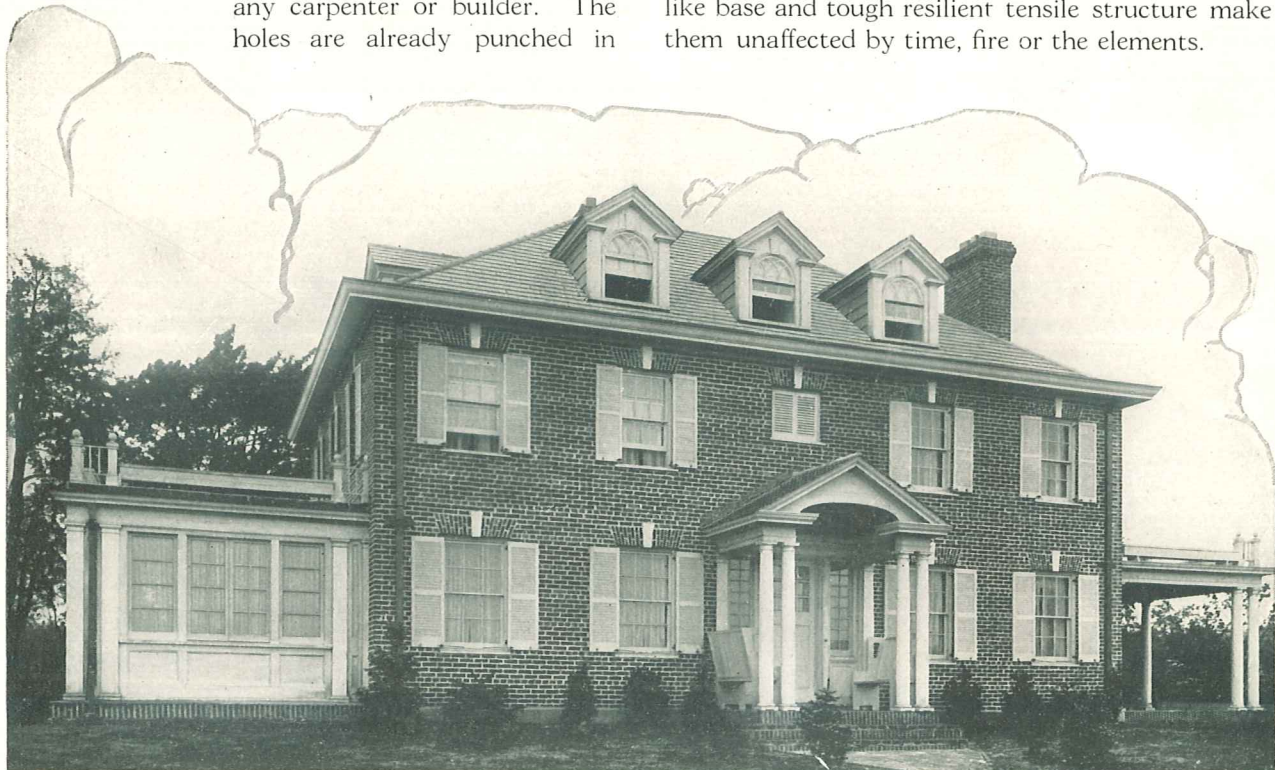
Johns-Manville Asbestos Shingles are a combination of asbestos rock fibre and Portland cement formed under great hydraulic pressure.

They can be easily applied by any carpenter or builder. The holes are already punched in

each shingle. All that is needed is a hammer and nails. There is nothing in these shingles to rot, burn or rust—nor will they warp, split or crack under summer sun or winter snow—in short, their rock-like base and tough resilient tensile structure make them unaffected by time, fire or the elements.



RESIDENCE OF EDW. F. EDINGER, CEDAR RAPIDS, IOWA
COVERED WITH JOHNS-MANVILLE "COLORBLENDE" SHINGLES
McKAY BROS. CONST. CO., ARCHITECTS AND BUILDERS



RESIDENCE OF DR. L. A. O'BRIAN, HARMON, N. Y., ROOFED WITH JOHNS-MANVILLE "COLORBLENDE"
ASBESTOS SHINGLES; HENRY VALLET, ARCHITECT

A New Type of Asbestos Shingle

HERETOFORE in this pamphlet, we have been concerned with the rectangular or American Method shingle. But there is still another type that offers unusual possibilities in economy, line and color. It is the hexagonal shingle.

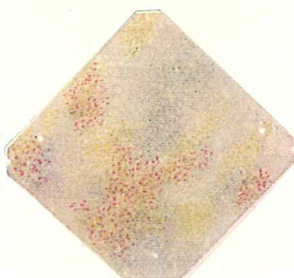
This shingle is laid with the minimum overlap, thus it enables a saving in material not possible with the rectangular shingle. Its graceful lines are responsible for the preference thousands of people have expressed for it. But now Johns-Manville has doubled the scope of its usefulness by making an additional improvement.

One side of the new Hexagonal

Asbestos Shingle has the soft grey finish of the morning mist. The other side is

finished in rich pastel shades that vary with changing weather conditions. These shades are produced by embedding fine particles of crushed vari-colored slate right into the surface of the shingle. The advantage of this asbestos shingle lies in the fact that either side can be laid to the weather with the complete assurance

that it will render the kind of weathertight, fireproof service that a building needs. It is popularly priced too, and with the saving in material that its design affords, no building need be without an asbestos roof.



Johns-Manville Rough Texture Hexagonal Asbestos Shingles

Still another type of Hexagonal shingle is the Rough Texture Asbestos Shingle.

These shingles, in the red and green colors, have a roughened surface as shown in the illustrations. This adds greatly to the appearance of the finished roof in that it gives more color and shadow variety and a deeper, softer, richer tone.

Hexagonal shingles are furnished in red, brown, green and the two-texture shingle shown above. The red and green shingles have the rough texture finish while the brown and two-texture shingles are furnished with a smooth weather surface.

Because of the unchanging nature of the raw materials—*asbestos and Portland cement*—the fire-

proof and lasting qualities of Johns-Manville Asbestos Shingles are not limited to any number of years; they guard your home and the community indefinitely.



A Practical and Economical Method of Re-roofing

It is no longer necessary to tear off your old shingles when you need a new roof. One of the most progressive building innovations is the Johns-Manville method of re-roofing with Asbestos Shingles.

They are laid right over your present shingles with no muss, dirt or litter. The whole job is done with no danger of injury to your property or inconvenience to yourself. Any reputable roofer can do the work quickly, easily and economically.

Ripping off old shingles is like tossing money away! They are valuable as insulators. Underneath the Johns-Manville Asbestos Shingles, your old ones "pay for their keep" by making your attic rooms warmer in winter and cooler in summer.

When you re-roof with Johns-Manville Asbestos Shingles, you can forget your roof for the rest of your life. Thousands of Johns-Manville roofs are in perfect condition, when the rest of the buildings have

deteriorated beyond repair. These shingles do not curl, break, chip, crack or rot. You will probably never have another roofing repair bill on your desk. Johns-Manville Asbestos Shingles make the roof of your home absolutely fireproof. You can watch burning fire brands turn to cinders as they strike the shingles. You need never dread a roof communicated fire—one of the greatest worries of homeowners.

The low cost of Johns-Manville Asbestos Shingles is always a surprise to the home owner. For a reasonable amount you secure a roof which is beautiful, applied without inconveniences or delays, and, which protects your home as long as it stands.

Certainly this remarkable method of re-roofing right over your old shingles merits your further study. Any Johns-Manville office will be glad to give you complete information.



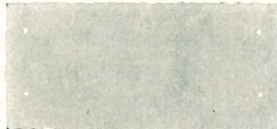
This shows how Johns-Manville Asbestos Shingles are laid right over the old wooden ones—a quick, economical and permanent way to re-roof.

During the last fifteen years these shingles have been laid over old ones on thousands of houses throughout the country. We have yet to know of a single case where there has been dissatisfaction.

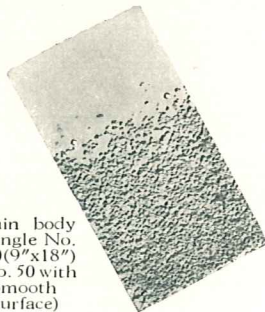
Data for Laying by American Method

"Colorblende" Shingles

Thickness $\frac{1}{4}$ "; edges rough, colors, the four shades of Conglomerate Brown alone or mixed with Indian Red, Gray (or both) when desired.



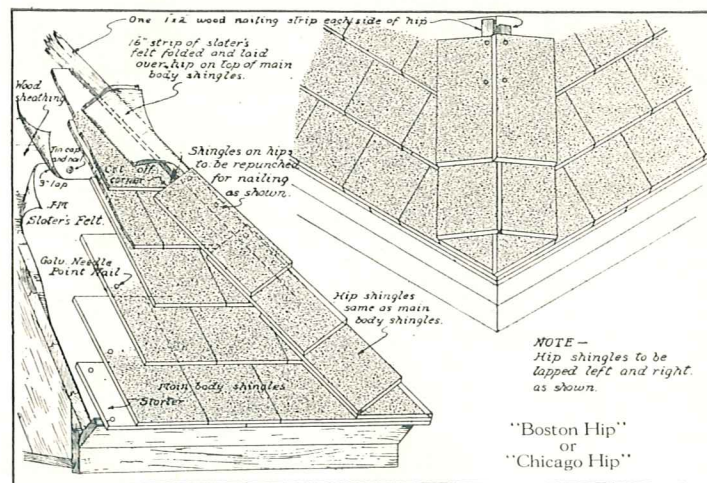
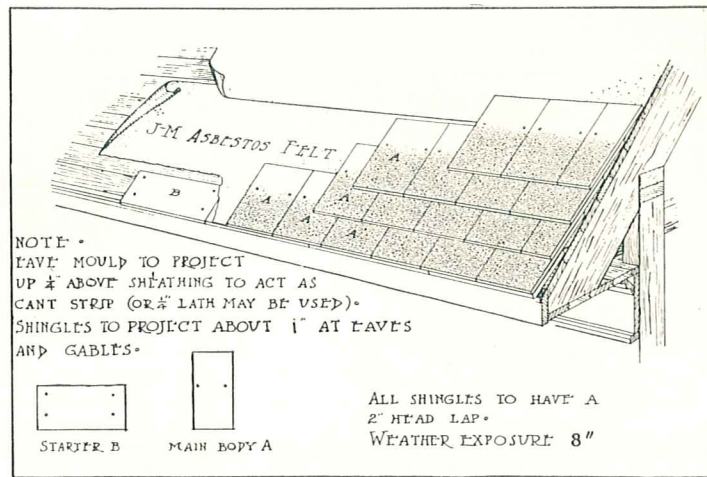
Starter No. 51 (for Nos. 50 and 52, 150 and 152)



Main body Shingle No. 150 (9"x18") (No. 50 with Smooth Surface)



Main body Shingle No. 152 (9" x 18") (No. 52 with Smooth Surface)



CONSTRUCTION DATA

Catalog No. of Shingles	Size (Ins.)	Thick-ness	Weight per Sq. Applied (Lbs.)	Weight per 100 Shingles (Lbs.)	No. Shingles per Sq.	Surface Exposed (Ins.)	Galv. Nails per Sq. (Lbs.)	Catalog No. of Starter	Thick-ness of Starter	No. of Starters Required per 100 Lin. Ft.
50	9x18	$\frac{1}{4}$ "	650	320	204	8x9	2	51	$\frac{1}{4}$ "	67
52	9x18	$\frac{1}{4}$ "	740	320	230	18x3 $\frac{1}{2}$	2 $\frac{1}{2}$	51	$\frac{1}{4}$ "	67*
150	9x18	$\frac{1}{4}$ "	650	320	204	8x9	2	51	$\frac{1}{4}$ "	67
152	9x18	$\frac{1}{4}$ "	740	320	230	18x3 $\frac{1}{2}$	2 $\frac{1}{2}$	51	$\frac{1}{4}$ "	67*

Note: With this style of shingle we recommend Boston (or Chicago) Hip and Ridge; when used with No. 50 or 52, 150 or 152 Shingles allow about $1\frac{1}{2}$ squares extra of No. 50 or 150 for every 100 linear feet to be covered.

Where preferred the ridge roll shown on page 24 can be used.

No. 52 and 152 are punched and intended for application by the longitudinal method (the long dimension paralleling the eaves).

*Order 35 of the No. 51 starters and halve the long way to get 67 starters $4\frac{1}{2}$ "x18".

Specifications for "Colorblende"* Shingles No. 50 or 150

Lay roof boards in the usual manner, breaking joints and nailing securely in place with at least two nails at each rafter, leaving no loose ends. The roofing boards shall be well seasoned, of narrow width and uniform thickness; tongue and grooved preferred. §

Over the roofing boards lay one thickness of Johns-Manville Asbestos Felt, laying horizontally with a 4" lap and with 12" lap on ridges, hips and valleys. When laying shingles over old wooden ones, do not use the felt.

Apply $\frac{1}{4}$ " thick by $1\frac{1}{2}$ " wide furring strip parallel to and flush with the eaves, then apply one course of Standard (Brown) No. 51, 9"x18" starters, at eaves lengthwise and parallel to same, overhanging the eaves about 1". Where an exceptionally thick edge is desired at the eaves, use standard (Brown) No. 17 Starter (4"x16") first, then apply Starter No. 51, breaking joints with and entirely covering first course. Then apply first main body course using Conglomerate Brown No. 50 or 150, 9"x18",

and (Indian Red No. 50 or 150, 9"x18"; Natural Gray No. 50 or 150, 9"x18"; mark out color not to be considered) Johns-Manville Asbestos Shingles, breaking joints with and entirely covering the starter course; after which proceed in the regular manner as with wooden shingles, exposing eight inches to the weather and fastening each shingle in place with two galvanized iron (or copper) needle pointed shingle nails. Never drive the nails down tight; it is only necessary to drive them firmly. The various shades of "Colorblende"* Asbestos Shingles shall be laid at random.

HIPS AND RIDGES

Construct "Boston" (or "Chicago") Hip and Ridge using No. 50 or 150 Johns-Manville Asbestos Shingles—(color to be as selected).

FLASHINGS

Flash all chimneys, valleys, etc., with copper or other approved material.

Specifications for "Colorblende"* Shingles No. 52 or 152

When this specification is used, begin it by repeating the first two paragraphs (regarding the roof deck and the felt), of the specification above, continuing as follows:

Apply $\frac{1}{4}$ " thick by $1\frac{1}{2}$ " wide furring strip parallel to and flush with the eaves, then apply one course of (Brown) $4\frac{1}{2}$ "x18" starters (these to be made on the job from No. 51, 9"x18" starters) at eaves lengthwise and parallel to same, overhanging the eaves about 1". Then apply first main body course using Conglomerate Brown No. 52 or 152, 9"x18", and (Indian Red No. 52, 9"x18"; Natural Gray No. 52, 9"x18"; mark out color not to be considered) Johns-Manville Asbestos Shingles breaking joints with and entirely covering the starter course; after which proceed in the regular manner as with

wooden shingles, exposing $3\frac{1}{2}$ " to the weather and fastening each shingle in place with two galvanized iron (or copper) needle pointed shingle nails. Never drive the nails down tight, it is only necessary to drive them firmly. The various shades of "Colorblende"* Asbestos Shingles shall be laid at random.

HIPS AND RIDGES

Construct "Boston" (or "Chicago") Hip and Ridge using No. 50 or 150 Johns-Manville Asbestos Shingles—(color to be as selected).

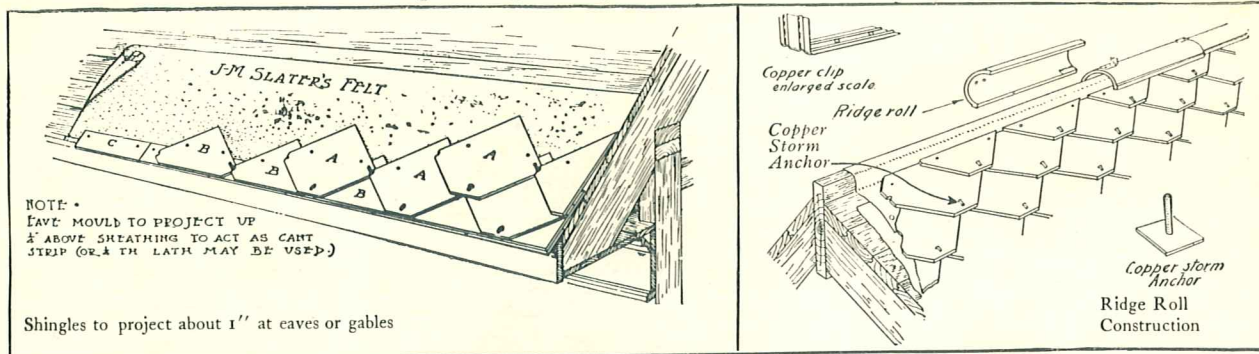
FLASHINGS

Flash all chimneys, valleys, etc., with copper or other approved material.

§ This first paragraph to be inserted in carpenters' specifications.

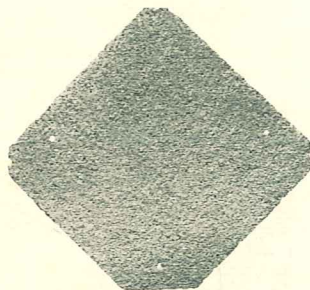
*When Johns-Manville ($\frac{1}{4}$ ") Asbestos Shingles are to be laid in one color, omit the reference to "Colorblende" in the above specifications for Nos 50 and 52, 150 and 152 shingles. Insert the desired color where required.

Data for Laying by Hexagonal Method

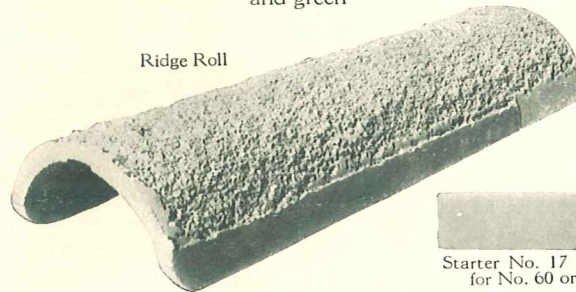


Hexagonal Shingles

Thickness, $\frac{1}{8}$ "; edges, smooth; colors, red, gray, brown and green



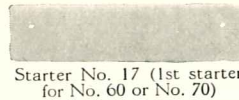
Main body shingle No. 60 (12"x 12") or No. 70 (16"x16")



Ridge Roll



Starter No. 61 (2nd starter for No. 60) or No. 71 (2nd starter for No. 70)



Starter No. 17 (1st starter for No. 60 or No. 70)

CONSTRUCTION DATA

Catalog No. of Shingles	Size (Ins.)	Thickness	Weight per Sq. Applied (Lbs.)	Weight per 100 Shingles (Lbs.)	No. of Shingles per Sq.	Surface Exposed (Ins.)	Galv. Nails per Sq. (Lbs.)	No. of Storm Anchors Required per Sq.	Catalog No. of Starter	Thickness of Starter	No. of Starters Required per 100 Lin. Ft.
60	12x12	$\frac{1}{8}$ "	320	200	160	$9\frac{1}{2}$ x $9\frac{1}{2}$	$1\frac{1}{2}$	160	{ 17 61 17 71	{ $\frac{1}{4}$ " $\frac{1}{8}$ " $\frac{1}{4}$ " $\frac{1}{8}$ "	{ 75 77 75 58
70	16x16	$\frac{1}{8}$ "	300	345	87	13 x 13	1	87			

With this style of shingle we recommend Ridge Roll

Figure 93 sections of ridge roll per 100 linear feet (3" lap)

Specifications for Hexagonal Shingles Nos. 60 or 70

When this specification is used begin by repeating the first two paragraphs, regarding the roof deck and the felt, of the specification on page 23, continuing as follows:

Apply a $\frac{1}{4}$ " thick by $1\frac{1}{2}$ " wide furring strip parallel with and flush with eaves, then apply one course of No. 17 starters at eaves lengthwise and parallel to same, overhanging the eaves about 1 inch, apply second starter course using No. 61 (or No. 71) starters at eaves, lengthwise and parallel to same, breaking joints with and entirely covering the first starter course. Insert copper storm anchors between abutting ends of shingles of second starter course.

Cover balance of roof with No. 60 (or No. 70) Johns-Manville Asbestos Shingles with copper storm nails protruding through hole in lower corner; these shingles

to be laid with their side edges forming a 45 degree angle with the eaves. Bend down copper storm nail protruding through the shingle, insert copper storm anchors between abutting corners of shingles and securely fasten each shingle in place with two galvanized iron (or copper) needle-pointed shingle nails. Never drive nails down tight; it is only necessary to drive them firmly.

HIPS AND RIDGES

Apply Johns-Manville Asbestos Ridge and Hip Roll, with not less than 3-inch lap, fastened in place with special ridge roll fasteners.

FLASHINGS: Flash all chimneys, valleys, etc., with copper or other approved material.

Other Johns-Manville Roofings and Building Materials

Asbestos Ready-to-Lay Roofings

For sloping roofs on factories, office buildings, warehouses, piers, barns, etc. Made of imperishable asbestos felts. Brooks (white top), Flexstone (black top or surfaced with red, green or blue-black slate).

Asbestos Built-up Roofing

For all types of flat and moderately pitched roofs. Sheets of Asbestos felts built up on the roof deck to the required thickness and cemented together with natural asphalts.

Transite Corrugated Asbestos Roofing and Siding

For laying over widely spaced purlins of skeleton frame construction. Made of asbestos fibres and Portland cement combined under great hydraulic pressure.

Asbestos Fibrous Enamel

An all-mineral durable roof coating which prevents rust, corrosion and deterioration. Made of asbestos fibres and natural asphalt which produce a durable tough protective coating. Made in black and red only.

Asbestos Roof Putty

For repairing cracks, joints, nail holes, etc., in all types of roofing. Made in black, red and gray.

Asbestoside

An asbestos sheet wall siding (without metal reinforcement) for application to barns, dairies, bungalows, factories, grain elevators, etc.

Rag-Felt Ready-to-Lay Roofings

For sloping roofs. Made in two brands: "Pilot," and "Slatekote." Pilot Brand—smooth surface, high grade rag felt waterproofed with natural asphalts.

Slatekote Brand—rag felt roll roofing with a surface coating of red, green, or blue-black crushed slate.

Johns-Manville Slatekote Shingles

Giant Shingles. A heavier, bigger, more durable, and more rugged shingle, with a thick, high grade, felt base, thoroughly saturated with natural asphalt so as to render it absolutely waterproof, and then armored and embellished with green, red or blue-black crushed slate. The very much greater thickness of this shingle gives a marked shadow line to the roof it covers, and greatly improves its appearance. Made in strips, 12" x 32" and individual 10" x 16". Also made in standard sizes; strips 12½" x 32" and individual 8" x 12¾". Standard individual shingles are also made in yellow and four variegated colors.

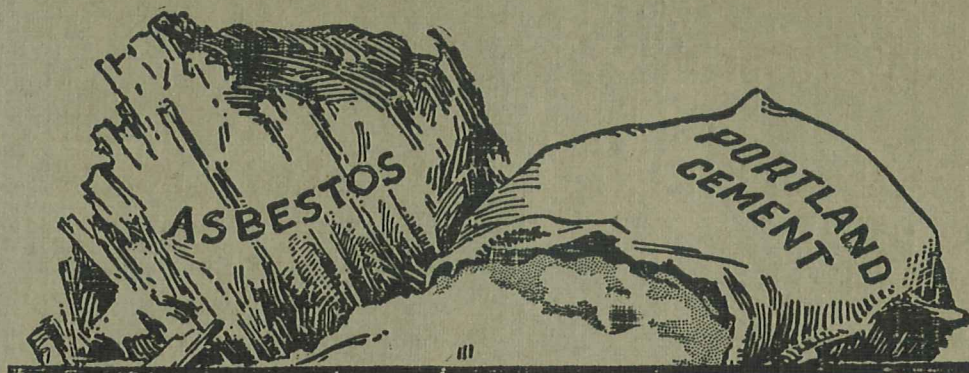
Hexagonal Slatekote Shingles. Made in strip form, two shingles to the strip, 10" wide by 36" long; in seven colors: red, green, blue-black, and four variegated shades.

Regal Roof Coating

For restoring and preserving tin, rag-felt or composition roofings. Made in black and colors.

Johns-Manville Housline

The building insulation which keeps houses warmer in winter, cooler in summer, quieter all the time. Houses with walls and roof insulated with Housline are not only more comfortable, but more economical to heat. The slight additional cost of this material over the ordinary building paper which is generally used is quickly saved in lower fuel costs; and thus a more comfortable house is secured at no additional cost whatsoever.



Asbestos fibres and Portland cement are combined by great hydraulic pressure into the beautiful, everlasting,

Johns-Manville Rigid Asbestos Shingles

No matter what type of building you have, there is a Johns-Manville Asbestos Roofing to protect it from fire and weather. See your roofing man or the nearest Johns-Manville Branch.

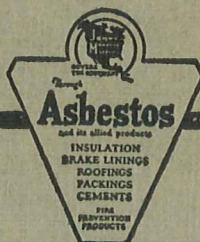
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